

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Nobori et al., Isutomu

5 (ii) TITLE OF INVENTION: METHOD FOR DETECTION OF
METHYLTIOADENOSINE PHOSPHORYLASE DEFICIENCY IN MAMMALIAN
CELLS

(iii) NUMBER OF SEQUENCES: 1

10 (iv) CORRESPONDENCE ADDRESS:

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(C) CITY: La Jolla
(D) STATE: CA
(E) COUNTRY: U.S.A.
15 (F) ZIP: 92037

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
20 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US
(B) FILING DATE:
(C) CLASSIFICATION:

25 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/459,343
(B) FILING DATE: 02-JUN-1995

(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/176,855
30 (B) FILING DATE: 29-DEC-1993

(ix) ATTORNEY/AGENT INFORMATION:

(A) NAME: Taylor, Stacy L.
(B) REGISTRATION NUMBER: 34,842
(C) REFERENCE/DOCKET NUMBER: 07340/050001

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 619/678-5070
(B) TELEFAX: 619/678-5099

(2) INFORMATION FOR SEQ ID NO:1:

5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3083 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATGGAAGGCA GCACACCATC ATGCCTCAA AGGTCAACTA CCAGGCGAAC ATCTGGGCTT 960
TGAAGGAAGA GGGCTGTACA CATGTCATAG TGACCACAGC TTGTGGCTCC TTGAGGGAGG 1020
AGATTCA~~GG~~CC CGGCGATATT GTCATTATTG ATCAGTTCAT TGACAGGTAA GCAGTCATAC 1080
AAAATGCTTT AGGCTATTGT AGCTGGTCAT TTTCAGCTCA AATGGACGAC NNNNNNNNNN 1140
5 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 1200
GAGGTCGACG GTATCGATAA GCTTTGTAAA CAATTGTCTT TAGCTTATCC AGAGGAATTG 1260
AGTCTGGAGT AAAGACCCAA ATATTGACCT AGATAAAGTT GACTCACCAAG CCCTCGGAGG 1320
ATGGAAAGAT GGCCTTAAAA TAAAACAAAC AAAAACCTTT TTTGCTTTAT TTTGTAGGAC 1380
CACTATGAGA CCTCAGTCCT TCTATZATGG AAGTCATTCT TGTGCCAGAG GAGTGTGCCA 1440
10 TATTCCATG GCTGAGCCGT TTTGCCCCAA AACGAGAGAG GTGTGTAGTC TTTCTGGAAG 1500
GTGTAC~~CC~~AGA ATAATCATG TGGGCTTGGG GTGGCATCTG GCATTGGTT AATTGGCAGA 1560
CGGAGTGGCC CCATACCCTC ACTCAAGTTT GCTTTGTATT ATGCAAGTTT ATGGAGAGTT 1620
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15 AGTTTCTGGT TTTCTTTTC TAGGTTCTTA TAGAGACTGC TAAGAAGCTA GGACTCCGGT 1800
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GCTTCATGTT CCGCACCTGG GGGGCGGATG TTATCAACAT GACCACAGTT CCAGAGGTGG 1920
TTCTTGCTAA GGAGGCTGGA ATTTGTTACG CAAGTATCGC CATGGGCACA GATTATGACT 1980
GCTGGAAGGA GCACGAGGAA GCAGTAGGTG GAATTCTTT CTAAGCACAT ATAGCATGGG 2040
20 TTTCTGGGTG CCAATAGGGT GTCTTA~~ACT~~G TTTGTTCTA TTACGTTAGT TTCAGAAAGT 2100
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CAAGATCAA AAGAAAGAAA GAGACACTTT TACCCAAGGA TCAGTAGTGA AAATAGTACA 2220
TTG~~TAGGCAT~~ GTAGATGTGT TGAGAATCAT ACTAAGACTT GGGC~~TT~~NNNN NNNNNNNNNN 2280

NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 2340
NNNNNNNNNN GAGCTCCGAA AAATGTTTA TGACTAGCAG TGGAATTAA AGTTCTAGTA 2400
ACCTCCAGTG CTATTGTTTC TCTAGGTTTC GGTGGACCGGG GTCTTAAAGA CCCTGAAAGA 2460
AAACGCTAAT AAAGCCAAA GCTTACTGCT CACTACCATA CCTCAGATAG GGTCCACAGA 2520
5 ATGGTCAGAA ACCCTCCATA ACCTGAAGGT AA~~G~~TGTCAGC CATGGACAAC CAGGCATGTC 2580
TGGAGACTCT CTATTGTCTT C~~T~~CCCTCTCAC TAGCATCACA CCCGGGGTC CTCATGTATT 2640
TTATGCCAGC CTANNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 2700
CTGTAGAATT TATTTAAAGT GTATGTTCC TGCCTCCTCA CTTTGATCTA GAAAATCAA 2760
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10 TCCTTTCTTC CTTT~~C~~AGAAT ATGGCCAGT TTTCTGTTT ATTACCAAGA CATTAAAGTA 2880
GCATGGCTGC CCAGGAGAAA AGAAGACATT CTAATTCCAG TCATTTGGGA ATTCCTGCTT 2940
AACTTGAAA AAATATGGGA AAGACATGCA GCTTCATGC CCTTGCCTAT CAAAGAGTAT 3000
GTGTGAAGAA AGACAAGACA TTTGTGTGTA TTAGAGACTC CTGAATGATT TAGACAACCTT 3060
/ CAAAATACAG AAGAAAAGCA AAA 3083